

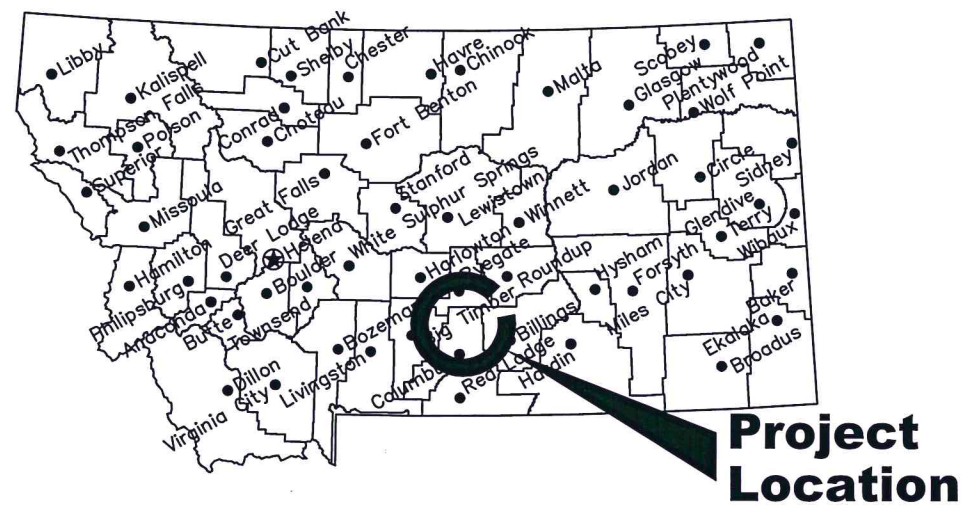
MONTANA FISH, WILDLIFE & PARKS

Big Lake Wildlife Management Area

2017 Road Improvements

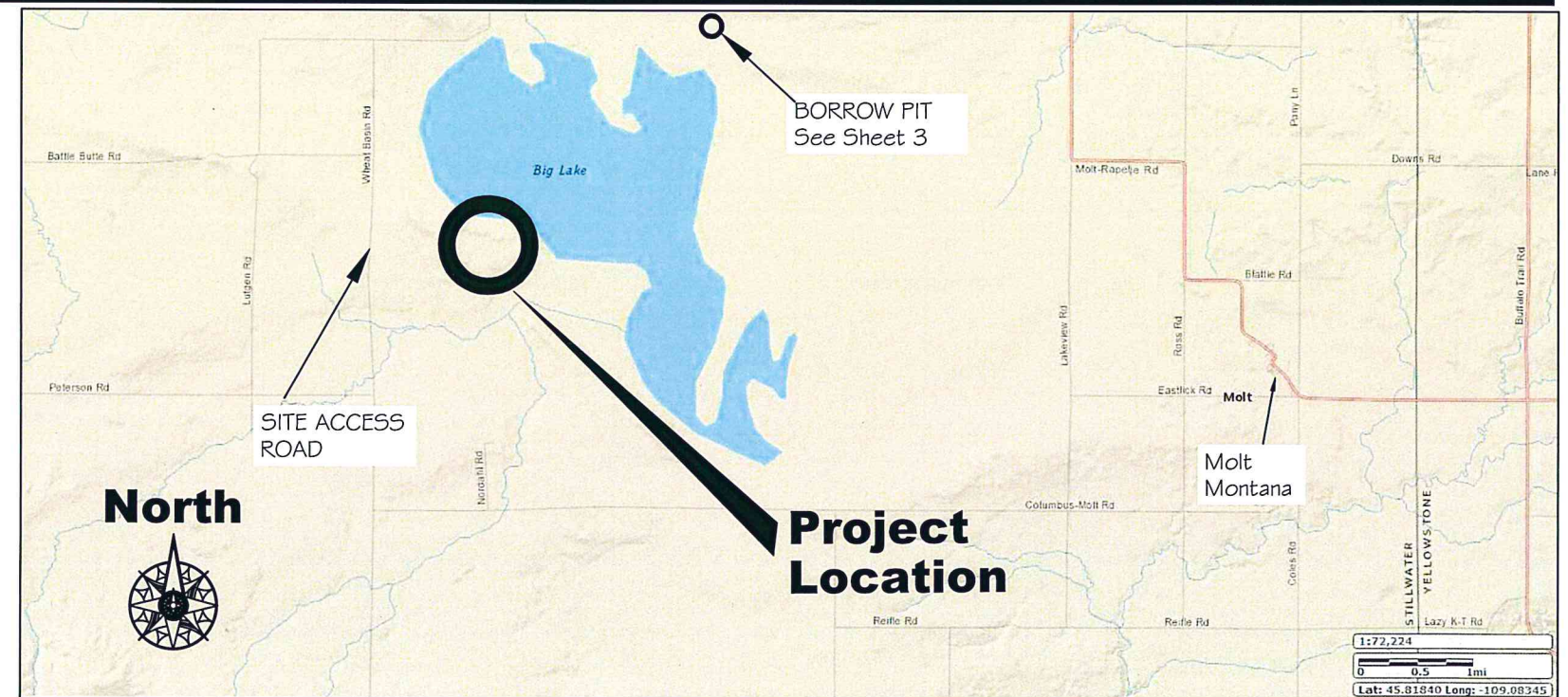
near Molt, Stillwater County, Montana

FWP# 7155315



Location Map

No Scale



Vicinity Map

No Scale

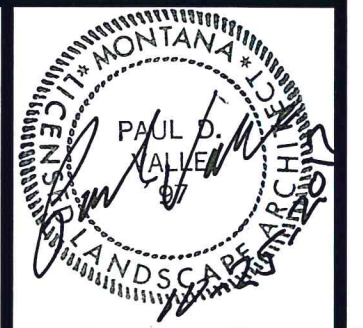
MONTANA FISH, WILDLIFE AND PARKS
DESIGN AND CONSTRUCTION

MAILING ADDRESS: PO BOX 200701
HELENA, MT 59620-0701
TEL 406.841.4000
FAX 406.841.4004
fwp.mt.gov/Doing Business/Design&Construction

PHYSICAL ADDRESS: 1522 9th AVENUE
HELENA, MT 59601

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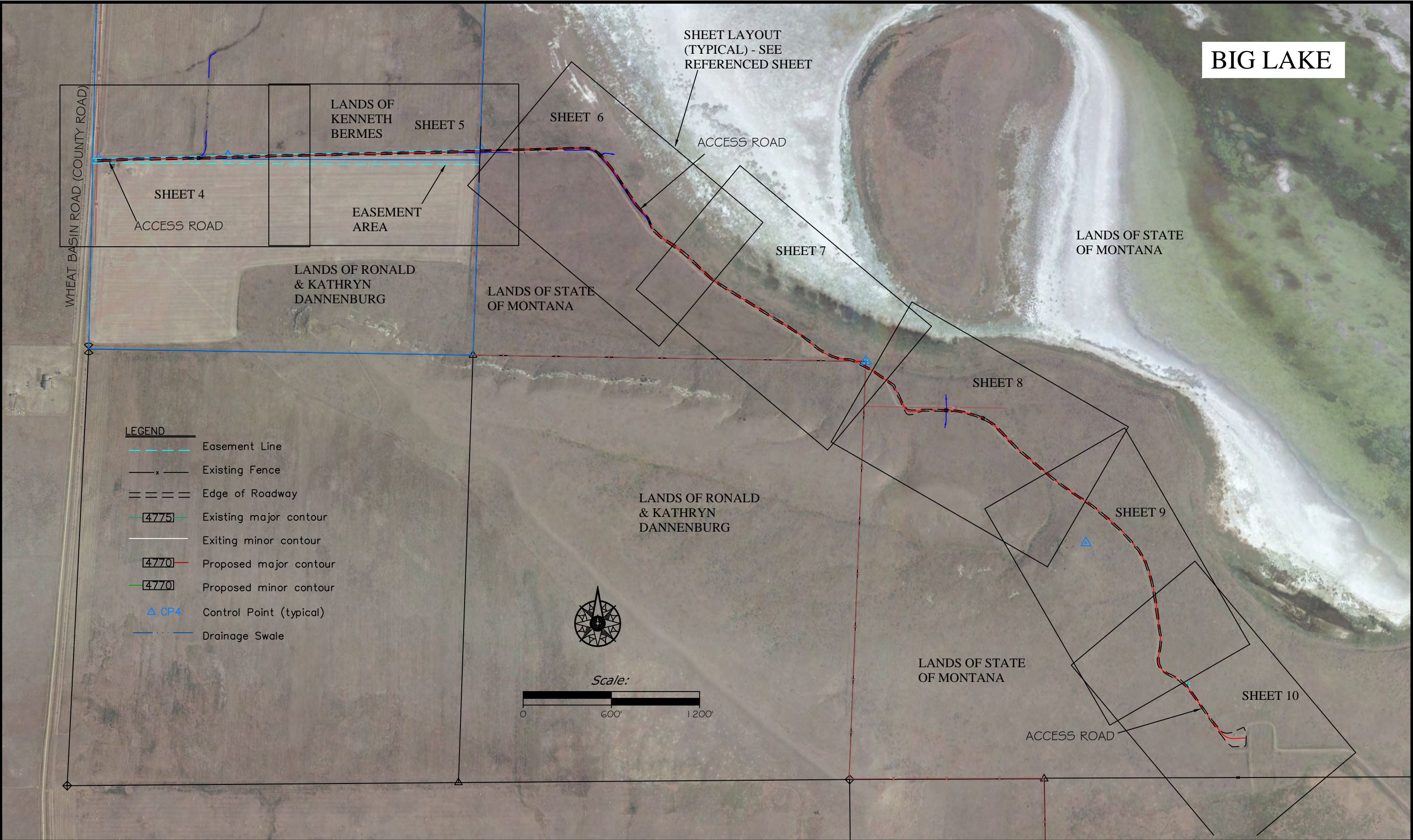
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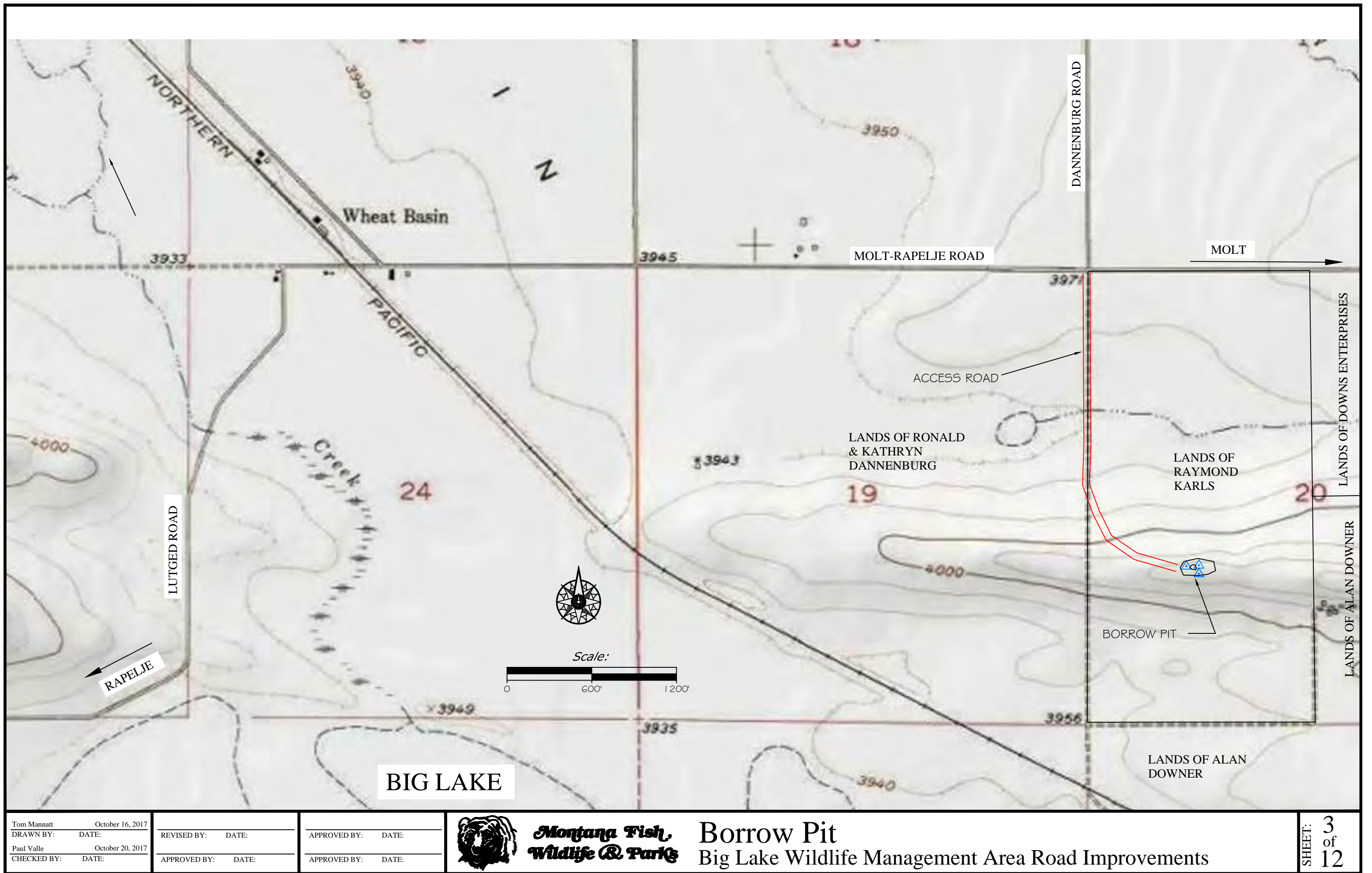


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Cover Sheet
Big Lake Wildlife Management Area Road Improvements

SHEET: 1 of 12





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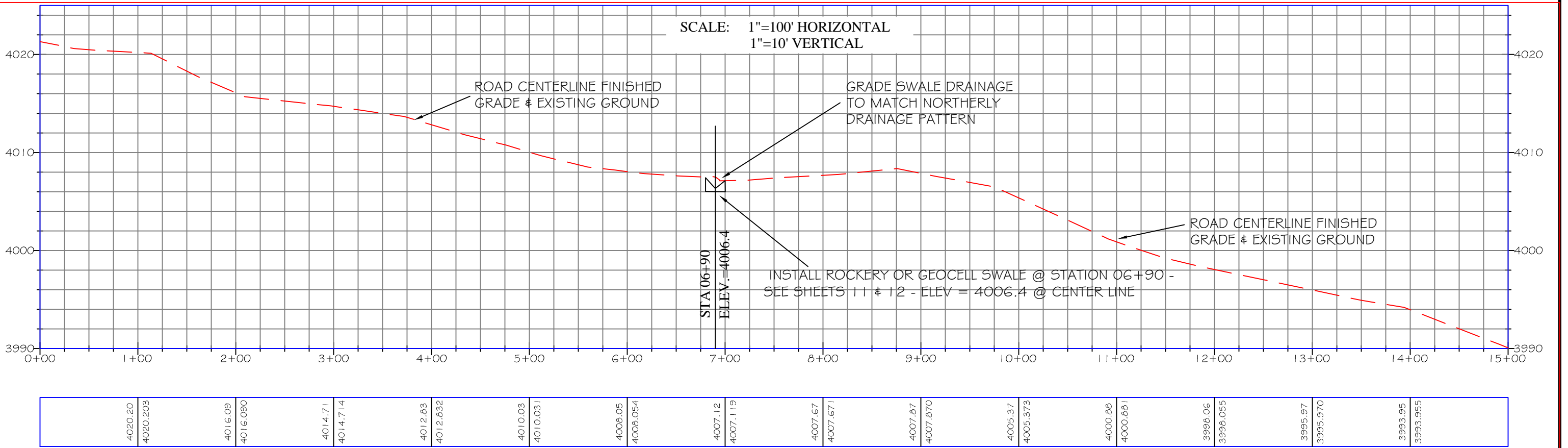
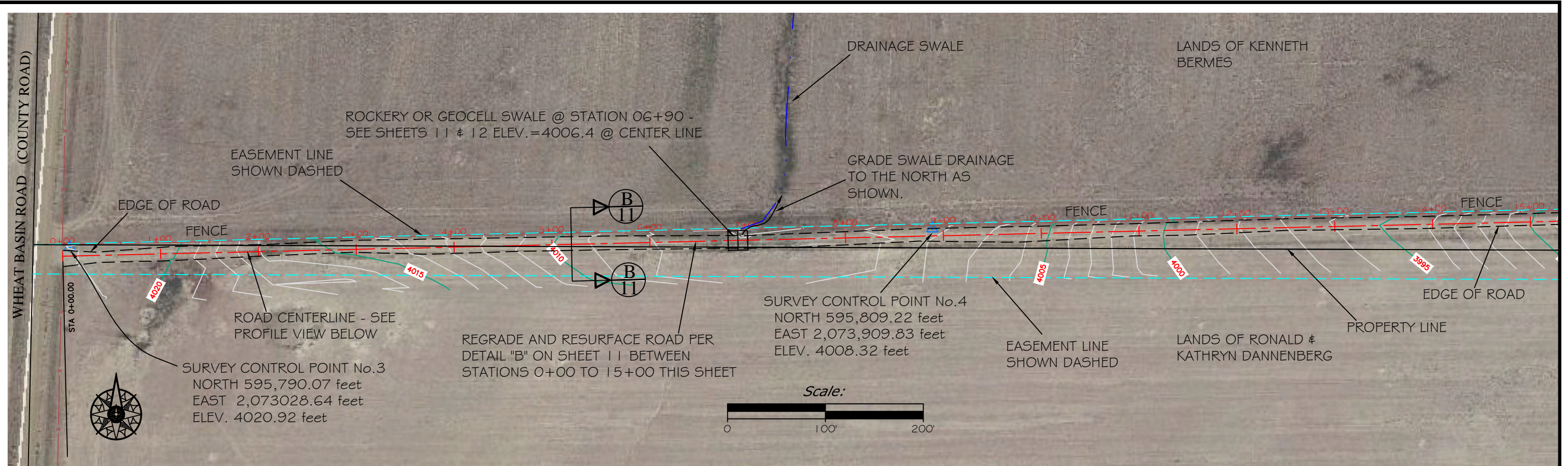


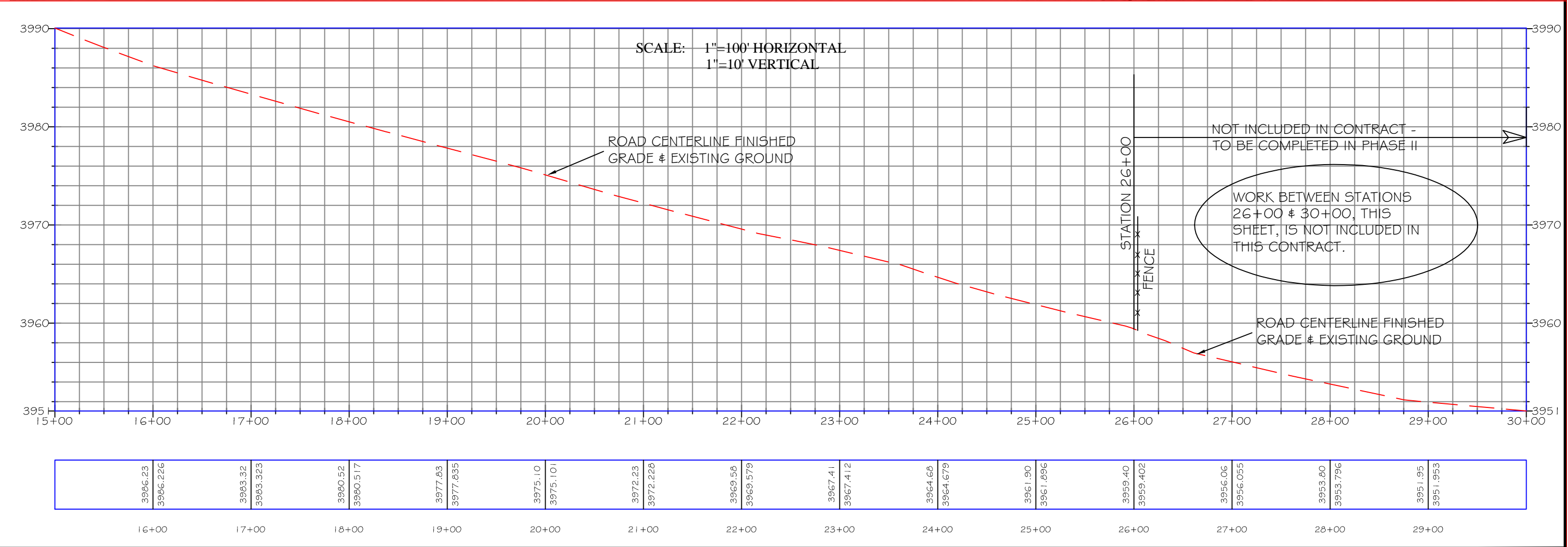
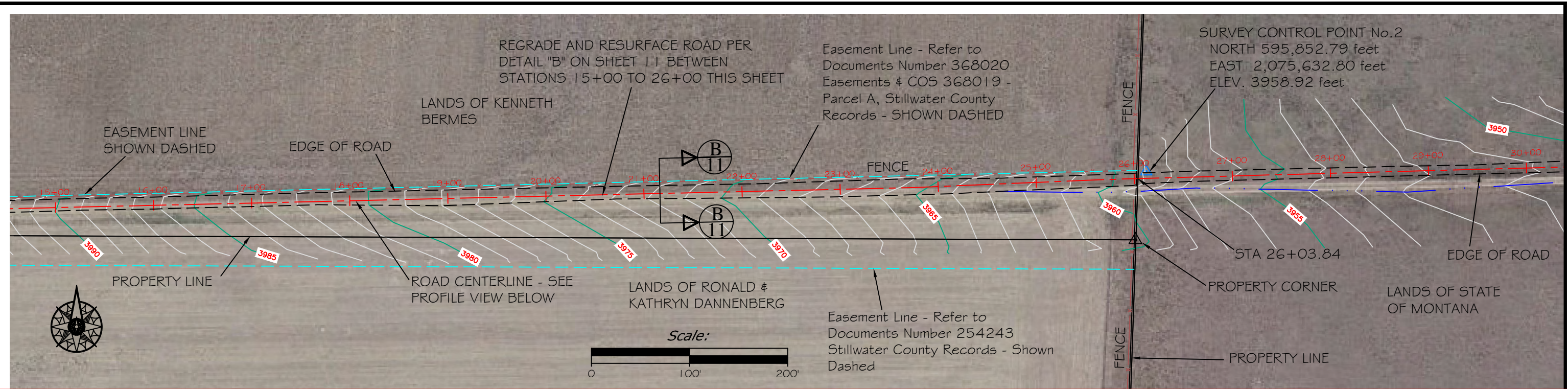
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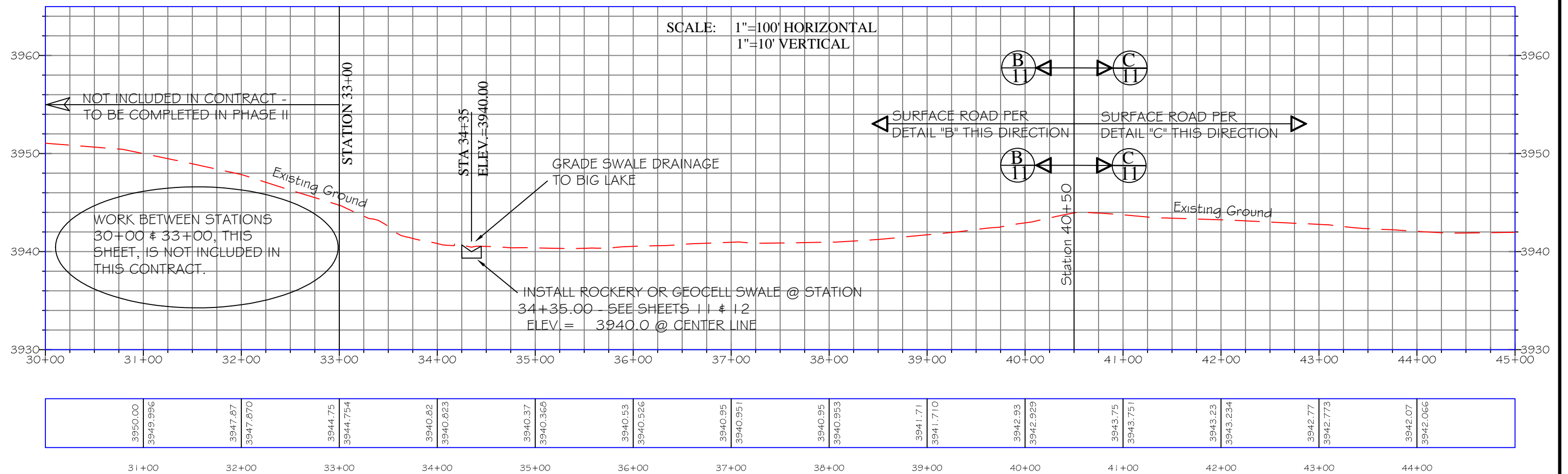
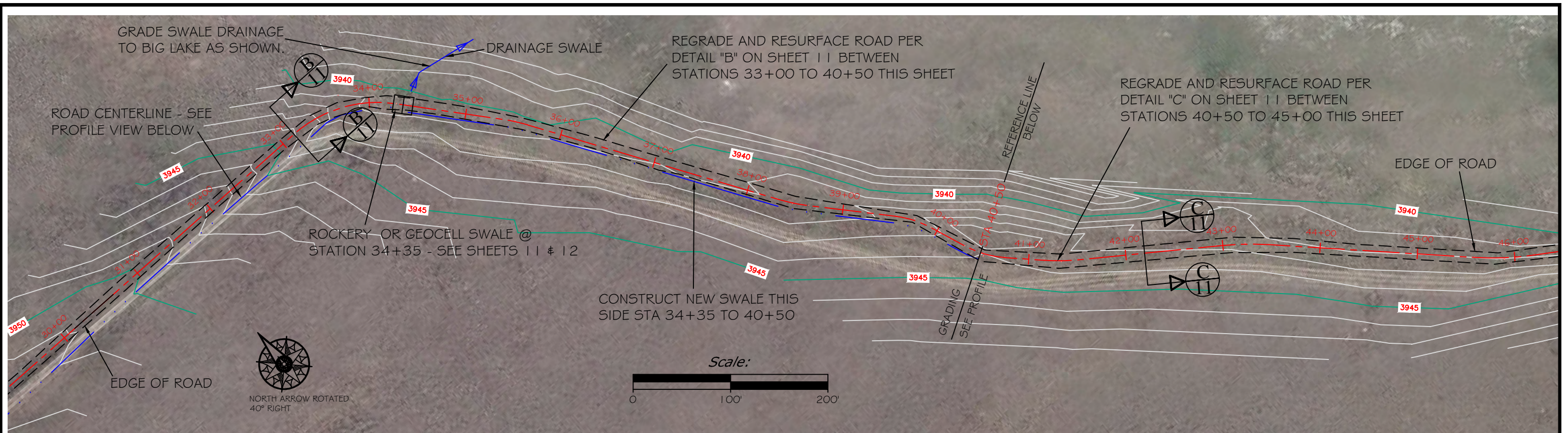
Borrow Pit

Big Lake Wildlife Management Area Road Improvements

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12







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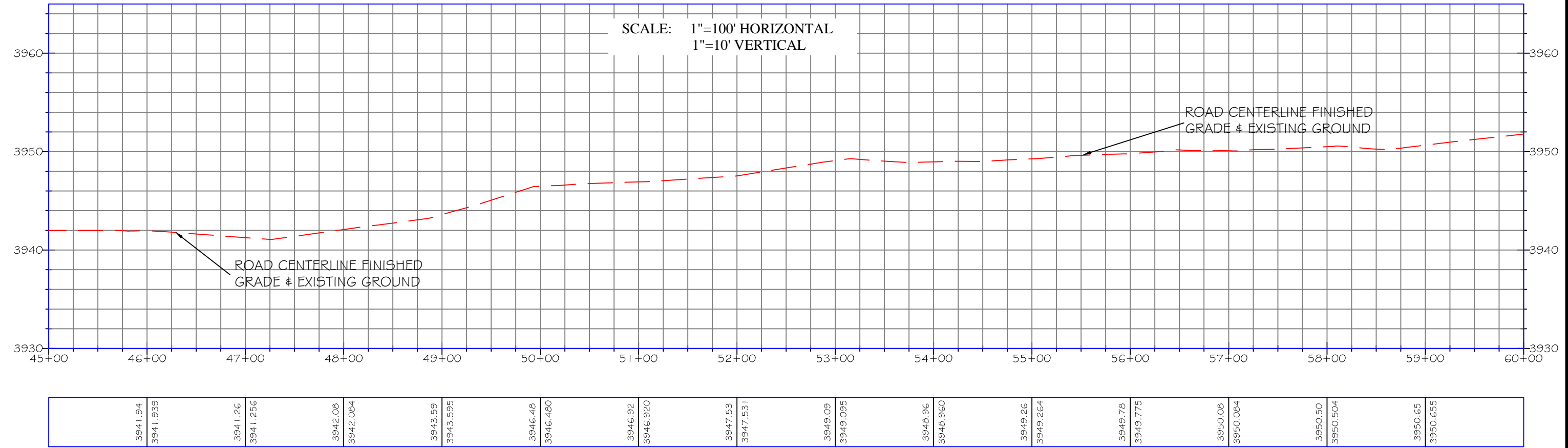
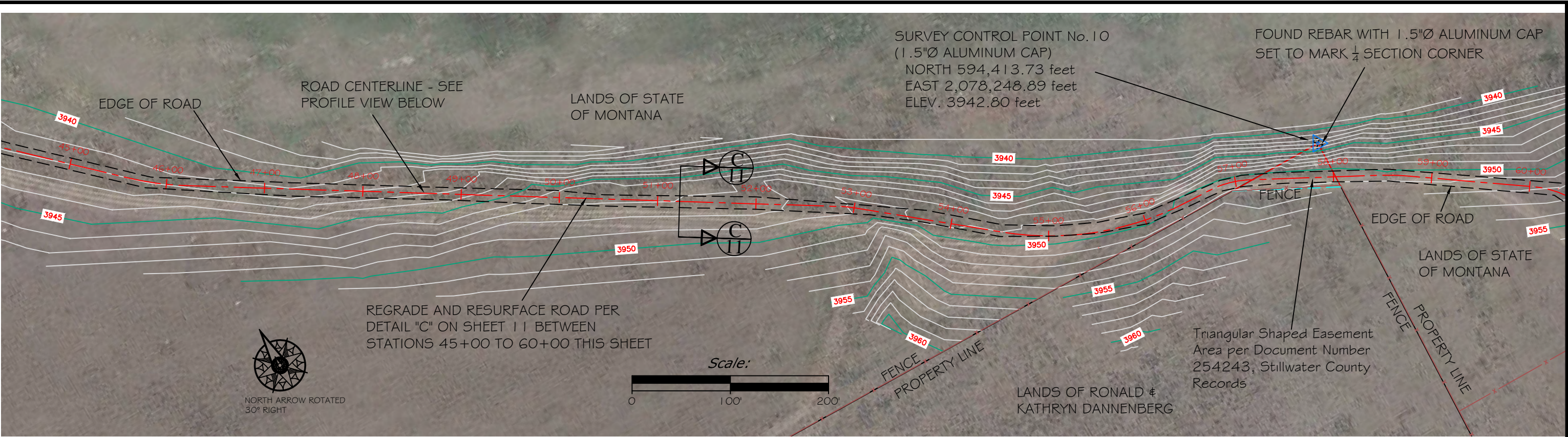
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Plan & Profile Sta. 30+00 to 45+00
Big Lake Wildlife Management Area Road Improvements

SHEET: 6 of 12



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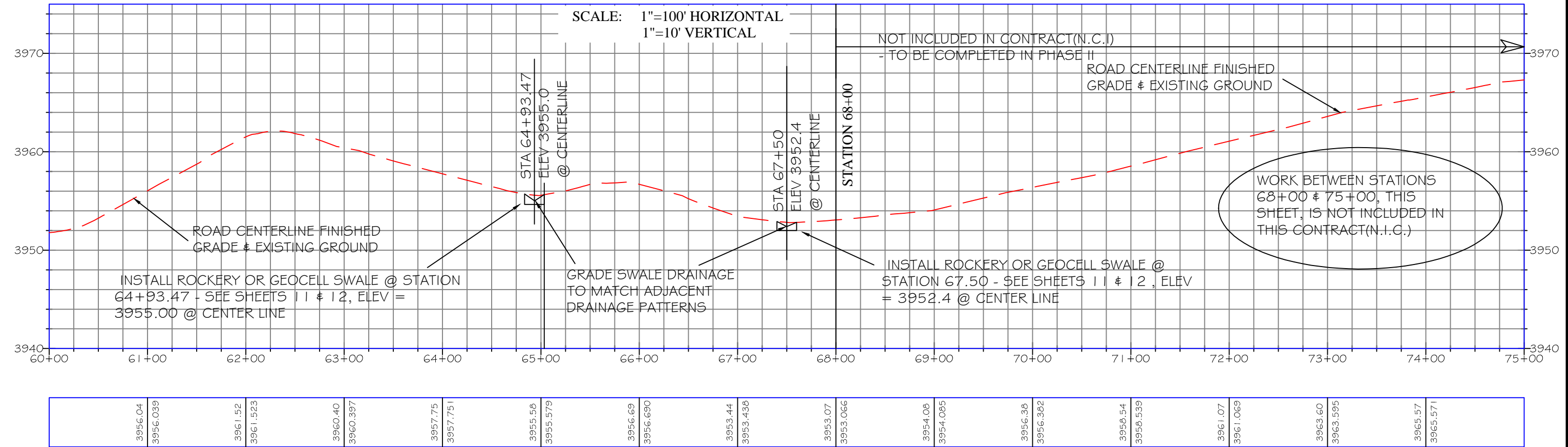
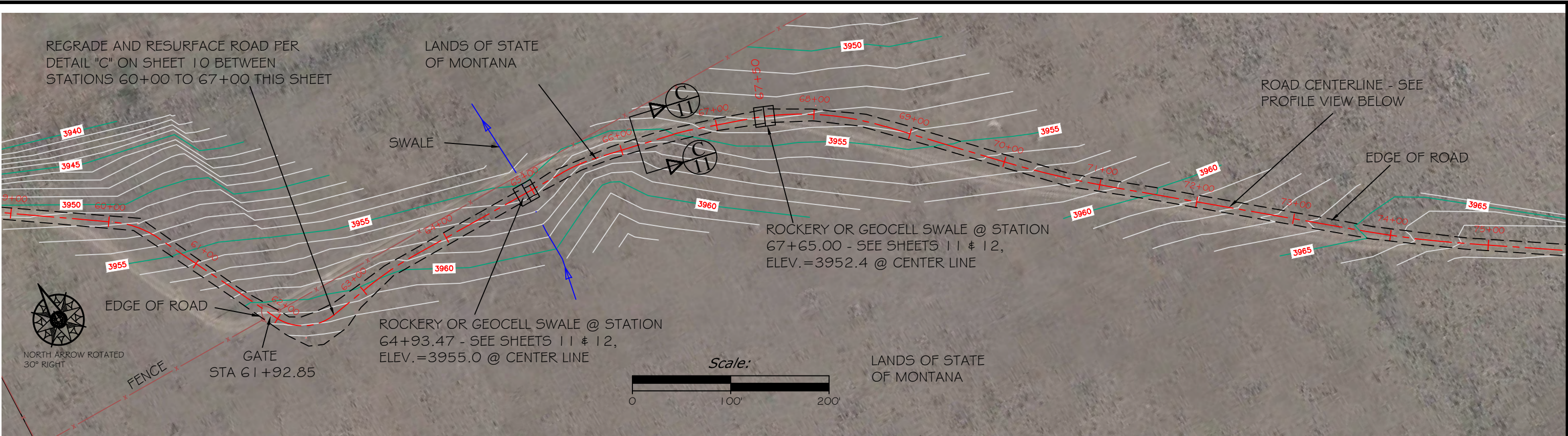
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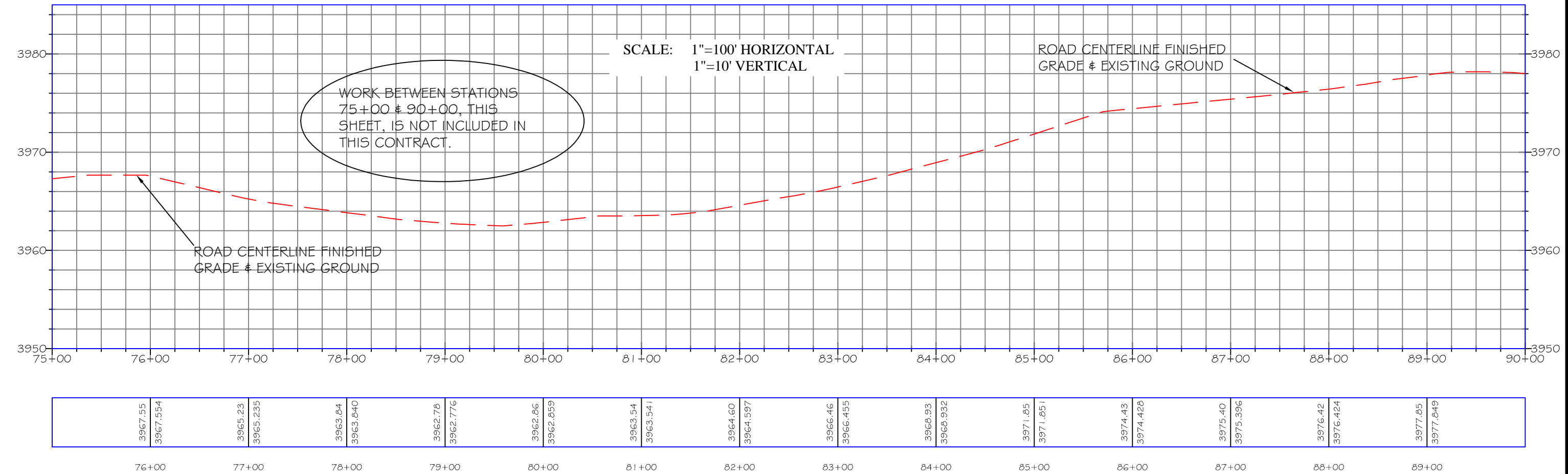
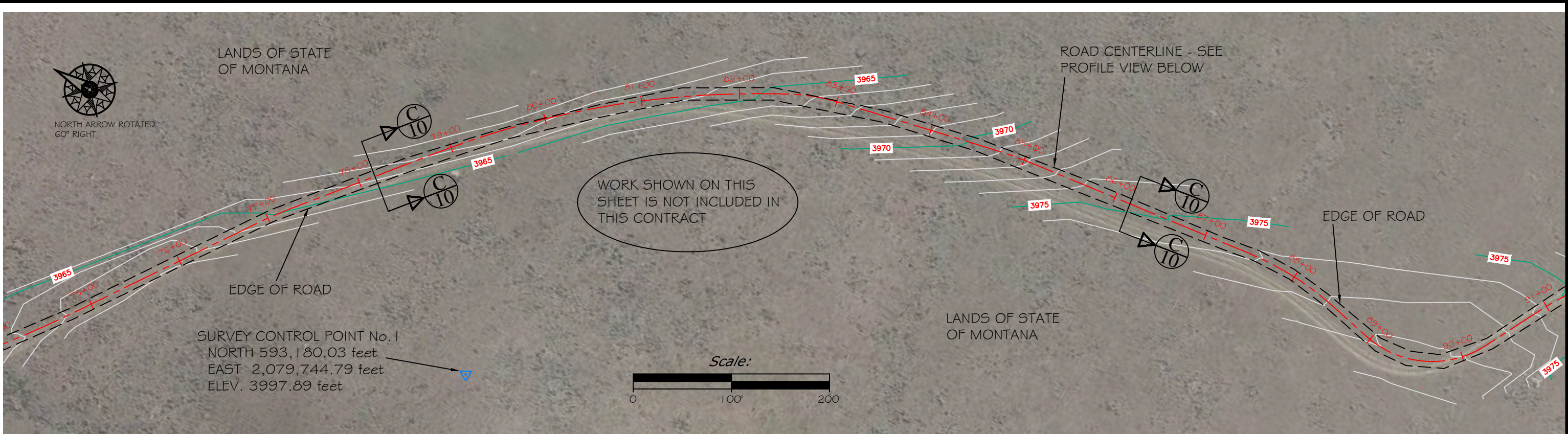
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Plan & Profile Sta. 45+00 to 60+00
Big Lake Wildlife Management Area Road Improvements

SHEET: 7 of 12



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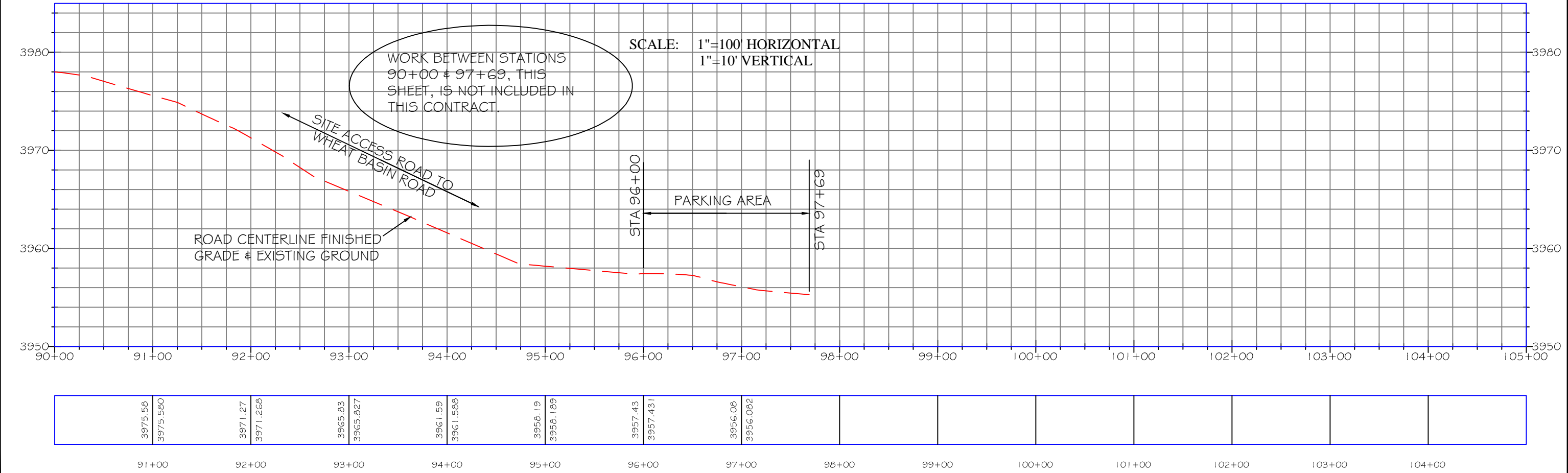
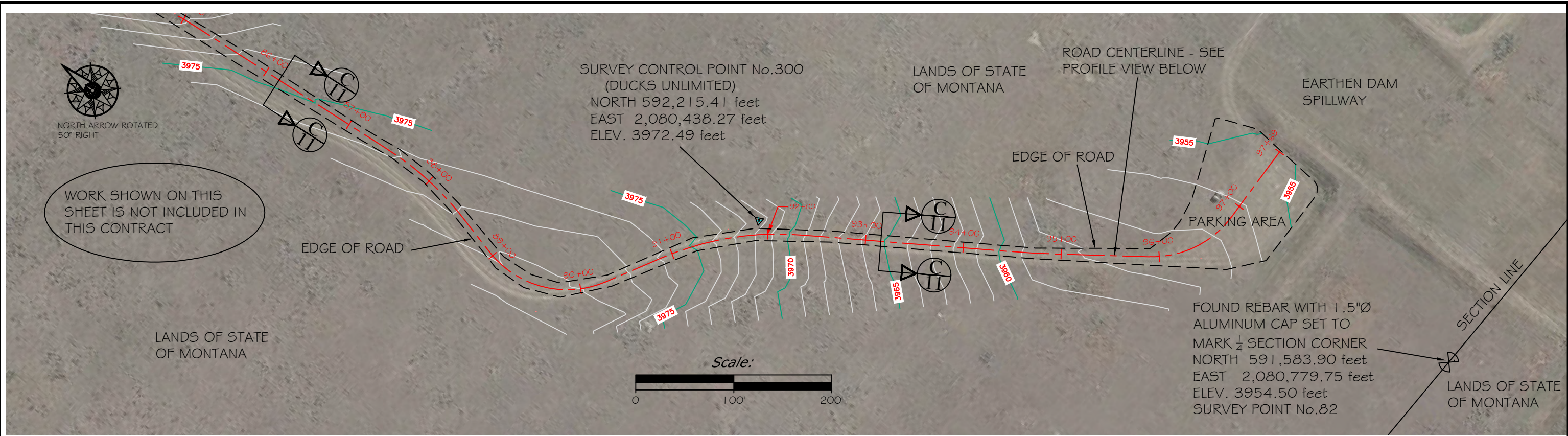
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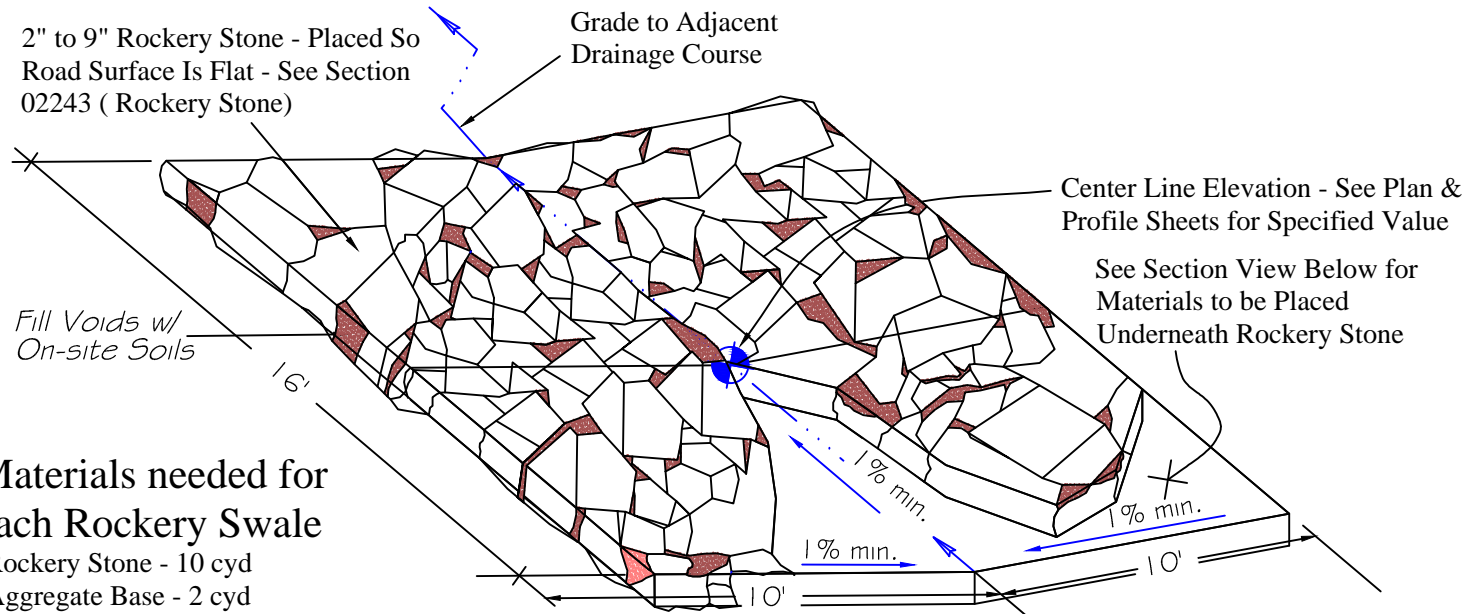


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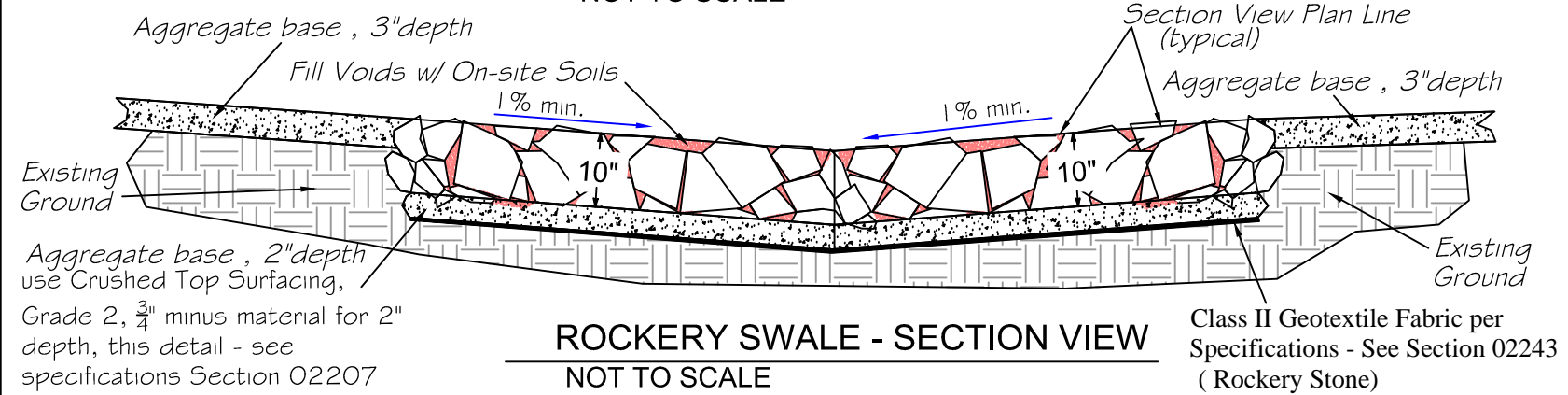
Plan & Profile Sta. 75+00 to 90+00
Big Lake Wildlife Management Area Road Improvements

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ROCKERY SWALE - PLAN VIEW
(Not to Scale)

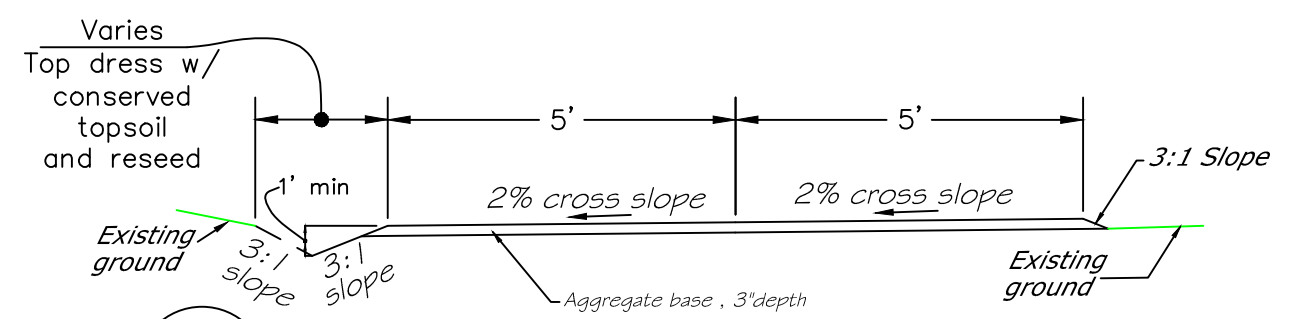


ROCKERY SWALE - SECTION VIEW
(Not to Scale)

- ROCKERY SWALE NOTES:**
1. Provide stone that is hard, durable and angular in shape, resistant to water action and weathering, free from overburden, spoil, shale, structural defects and organic material.
 2. Angular faces of stones shall inter-lock to provide a stable surface.
 3. Place Rockery Stone so road surface is flat and in no case exceeds the section view plan line by more than 1/2 inch. Hand place stones as required to achieve a uniform distribution of rock and a smooth roadway surface.
 4. Installed Thickness: 10" inches minimum.
 5. Fill voids with top soil stored from site excavation.

A
11

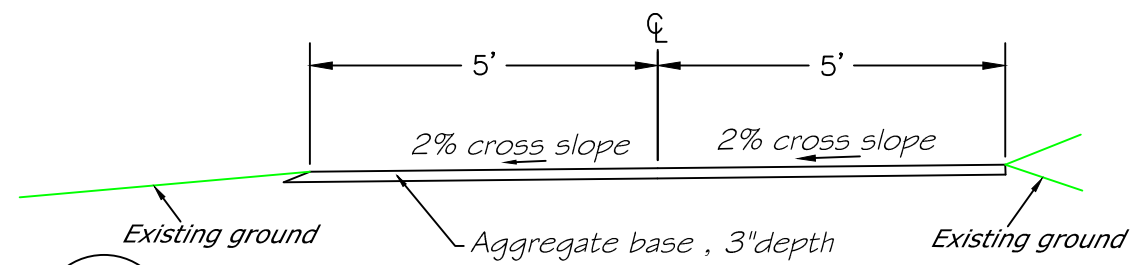
ROCKERY SWALE
(Not to Scale)



B
11

SECTION "B" - Road Surfacing w/ Swale
(Not to Scale)

Note: Use 3" minus Pit Run for aggregate base per specification Section 02207- Aggregate Materials



C
11

SECTION "C" - Road Surfacing w/o Swale
(Not to Scale)

Note: Use 3" minus Pit Run for aggregate base per specification Section 02207- Aggregate Materials

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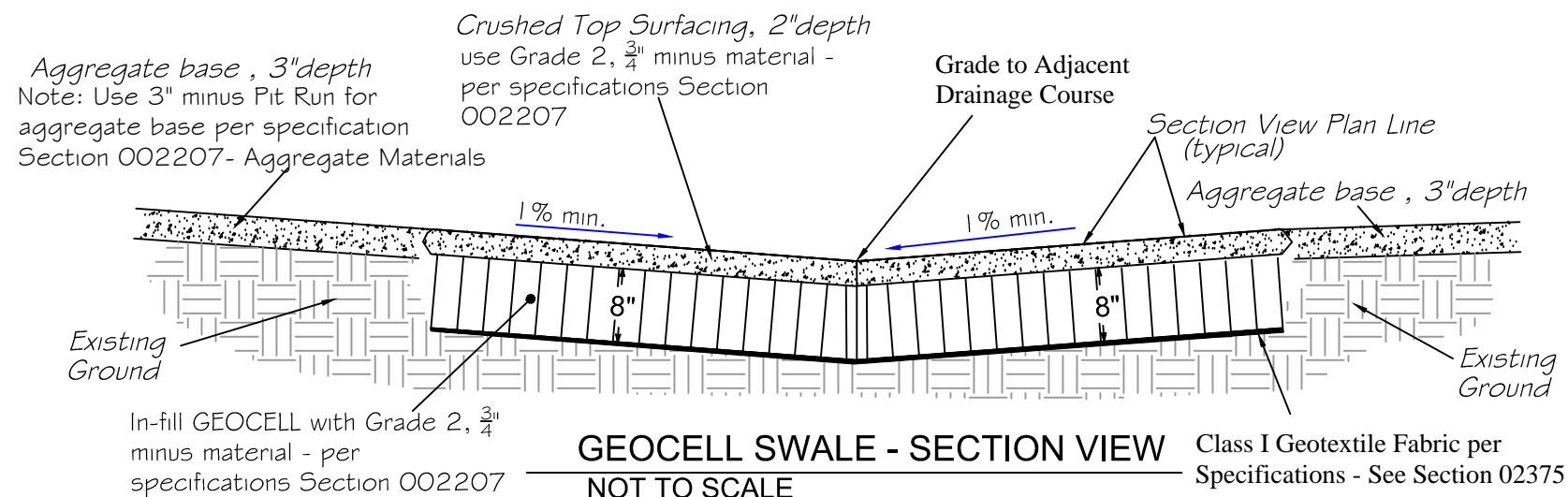
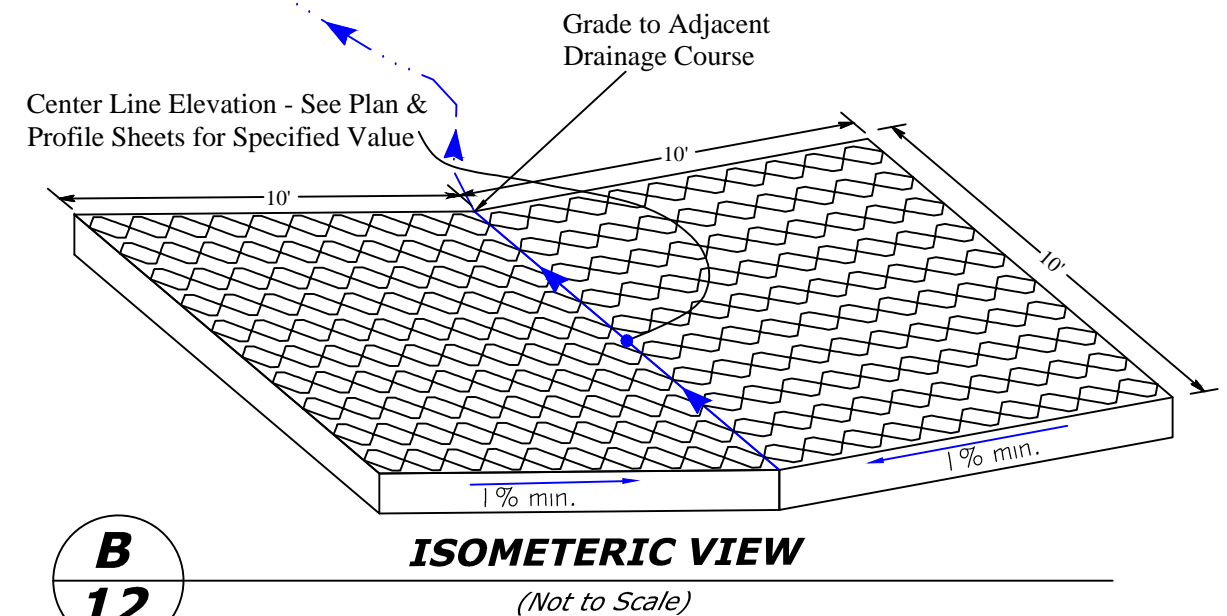
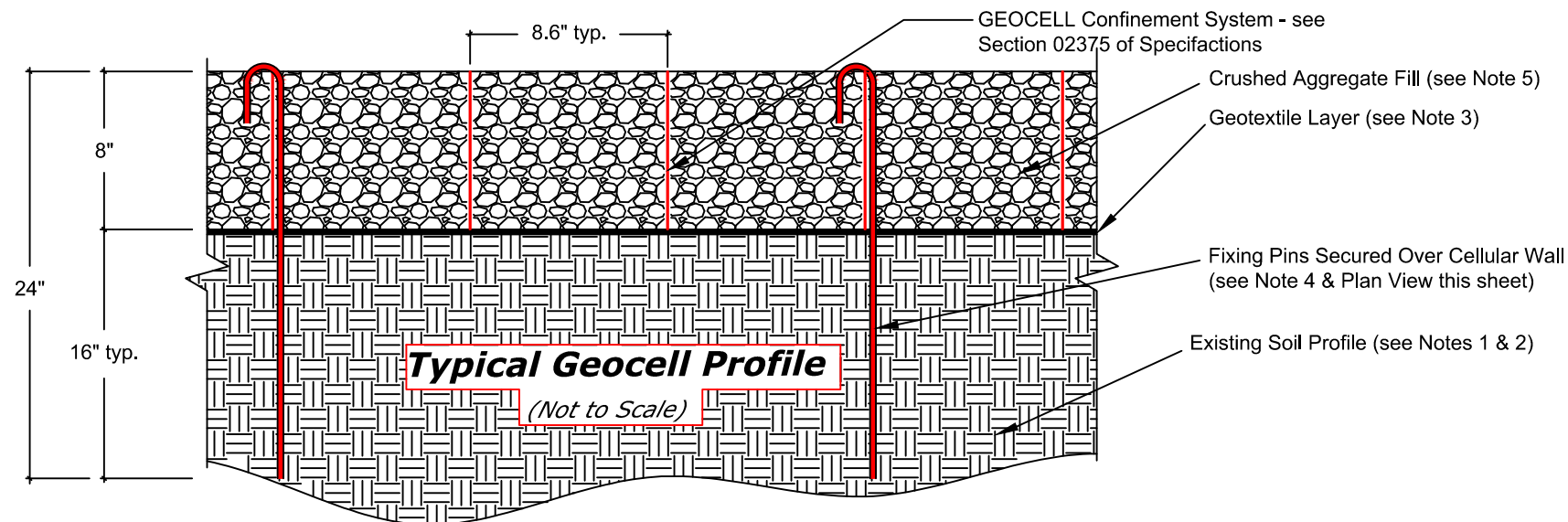
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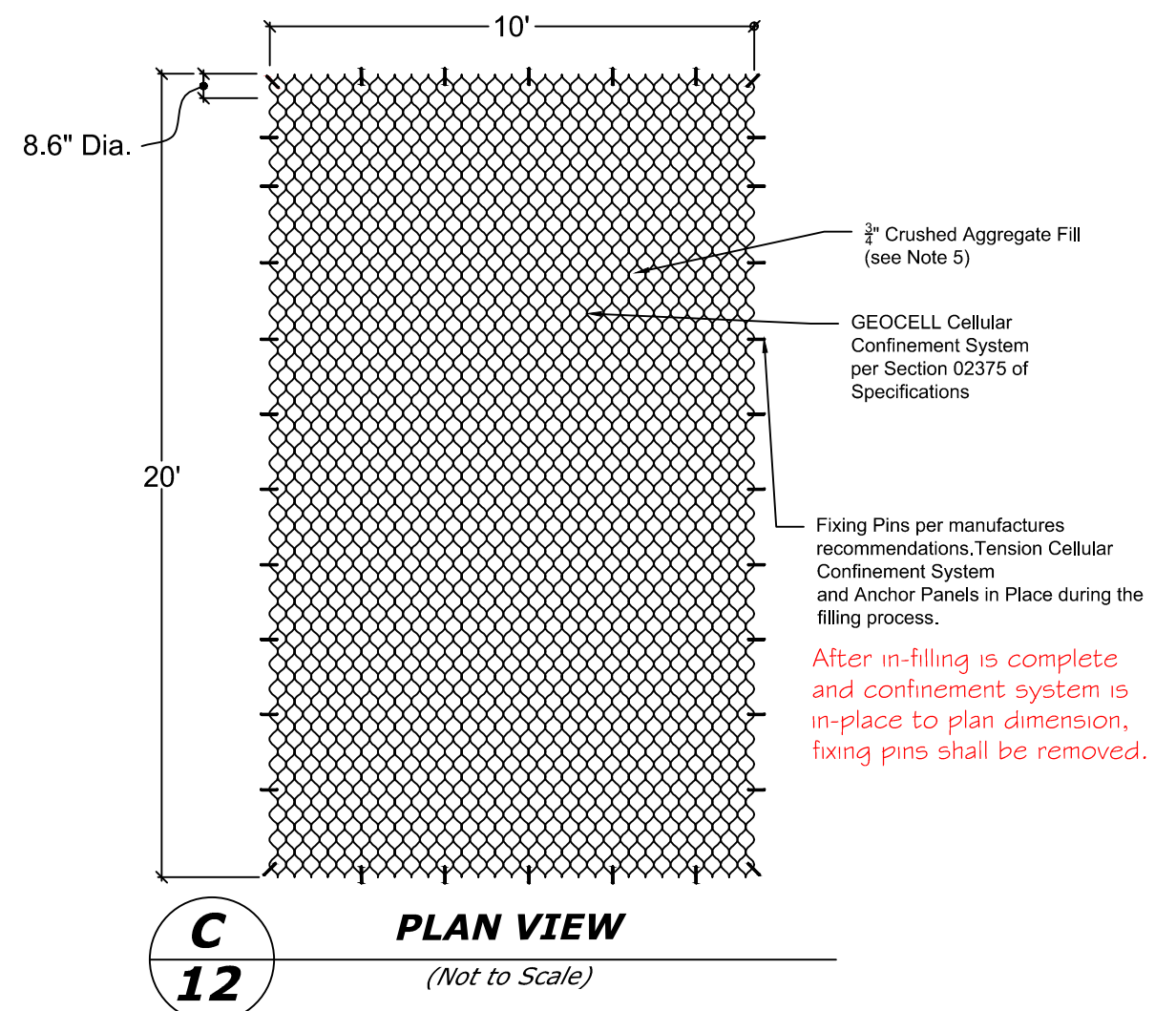
Road Cross-Sections & Typical Details
Big Lake Wildlife Management Area Road Improvements

SHEET: **11**
of **12**



GEOCELL SWALE NOTES:

1. Where weak and/or waterlogged ground conditions exist, these conditions must be improved prior to placement of GEOCELL material.
2. Level the existing surface prior to placement of GEOCELL.
3. A suitable geotextile shall be installed as a separator between the GEOCELL and existing soil.
4. Fixing pins should be used in accordance with manufacture's recommendations.
5. After GEOCELL has been anchored in-place, in-filling of the cells shall be carried out with $\frac{3}{4}$ " minus Grade 2 aggregate. For general convenience, it is advisable to fill from the edge inward, or from the toe (bottom) of slope upward. Aggregate shall be compacted in-place using an appropriate method.
6. GEOCELL shall be completely covered, prolonged exposure to sunlight will effect the products longevity.
7. Do Not drive on the surface prior to filling with crushed aggregate.



A
12

GEOCELL SWALE

(Not to Scale)

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GeoCell Swale Details
Big Lake Wildlife Management Area Road Improvements

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